

Message Text

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FM SECSTATE WASHDC

TO AMEMBASSY MEXICO PRIORITY

AMEMBASSY PANAMA PRIORITY

HOWARD AFB CZ PRIORITY

INFO ERDA AMES RESEARCH CENTER PRIORITY

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ERDA AMES FOR MR MASON

E.O. 11652:N/A

TAGS: TSPA:OCLR

SUBJECT: CLEARANCE REQUEST FOR NASA LEAR JET AIRCRAFT

REF: (A) STATE 092912 OF 231305Z APR 75

(B) MEXICO 4620 OF 282241Z MAY 75

1. IN CONNECTION WITH NASA STRATOSPHERIC SAMPLING
PROGRAM FROM PANAMA USING U-2 AIRCRAFT, NASA PLANS
CORRELATED STUDIES WITH NASA LEAR JET AIRCRAFT. REQUEST
FOR U-2 STAGING AND OVERFLIGHT CONTAINED SEPTEL. NO
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OVERFLIGHT MEXICO PLANNED WITH U-2 AIRCRAFT.

2. PURPOSE OF LEAR JET STUDIES TO PROVIDE COORDINATED
VERTICAL PROFILE STUDIES OF TRANSPORT PROCESSES IN THE
LOWER STRATOSPHERE. IT IS THOUGHT THAT THE DOMINANT
GEOGRAPHICAL LOCATION FOR TROPOSPHERE-STRATOSPHERE
MIXING PROCESS OCCUR IN THE EQUATORIAL REGIONS IN CON-

JUNCTION WITH THE UPPER BRANCH OF THE TROPICAL HADLEY CELL WHICH IS CENTERED IN THE INTERTROPICAL CONVERGENCE ZONE (ITCZ). THE NATURE AND EXTENT OF THE EARTH'S OZONE LAYER DEPENDS UPON THE MANY FACETS OF THE CHEMICAL,

PHOTOLYTIC AND TRANSPORT BEHAVIOR OF THE STRATOSPHERE. THE U-2 AND LEAR JET FLIGHTS WILL MEASURE TRACE SPECIES ALONG HORIZONTAL TRACKS AT MULTIPLE ALTITUDES IN ORDER TO BETTER UNDERSTAND THE MECHANISMS FOR TRACE SUBSTANCE TRANSPORT IN THE ITCZ.

3. PRINCIPAL INVESTIGATOR FOR LEAR JET STUDIES IS DR. REI RASMUSSEN OF WASHINGTON STATE UNIVERSITY.

4. IN ADDITION TO AIRCRAFT STUDIES METEOROLOGICAL BALLOONS CARRYING OZONESONDES WILL BE FLOWN TO 10 MH (30KM) THREE TIMES PER DAY FROM HOWARD AFB TO PROVIDE GOOD VERTICAL RESOLUTION AND CONTINUOUS RECORD OF METEOROLOGICAL PARAMETERS. BOTH BALLOONS AND AIRCRAFT WILL BE RADAR TRACKED TO PROVIDE PRECISE LOCATION DATA FOR SUBSEQUENT COMPARISON OF DATA.

5. AIRCRAFT WILL STAGE FROM HOWARD AFB, CZ AND ALL REPEAT ALL DATA FLIGHTS WILL BE CONDUCTED OVER PANAMA AND WATER ON A NORTH-SOUTH TRACK 200 MILES LONG CENTERED ON HOWARD AFB, CZ.

6. EXPERIMENTAL EQUIPMENT TO BE INSTALLED ON BOARD LEAR JET WILL CONSIST OF MULTIPLE STAINLESS STEEL CANIS- UNCLASSIFIED

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TERS CONNECTED TO AN OUT-BOARD AIR PROBE TO COLLECT IN-FLIGHT SAMPLES FOR SUBSEQUENT LABORATORY ANALYSIS, LOVELOCK ELECTRON-CAPTURE GAS CHROMATOGRAPH FOR CONTINUOUS IN FLIGHT MEASUREMENTS, DASIBI OZONE MONITOR WATER VAPOR RADIOMETER, ROSEMOUNT TOTAL TEMPERATURE PROBE, AEROSOL SAMPLER EXPERIMENT AND SUPPORTING ELECTRONICS INCLUDING RECORDER, INVERTERS, ETC. AIRCRAFT WILL NOT REPEAT NOT CONTAIN ANY TYPE OF PHOTOGRAPHIC OR SIMILAR SENSING EQUIPMENT.

7. FOLLOWING IS PROPOSED ITINERARY FOR LEAR JET:

LOCATION DEPART O/A RETURN O/A REMARKS

SAN ANTONIO, TEXAS 16 JULY 5 AUGUST REFUEL & RON

MERIDA, MEXICO 17 JULY 4 AUGUST REFUEL

HOWARD AFB JULY 17 - AUG. 4 STAGING

8. LEAR JET RANGE LIMITED AND MUST REPEAT MUST REFUEL IN MEXICO IF IT IS TO BE ABLE TO PROCEED TO PANAMA AND ASSIST IN STUDIES DESCRIBED ABOVE. NO REPEAT NO DATA WILL BE TAKEN OVER MEXICO. PURPOSE OF STOP MERELY FOR

REFUEL AND TO ENABLE AIRCRAFT REACH PANAMA. FYI: THIS IS SIMILAR TO REQUIREMENTS IN 1975 RE PERU SOUNDING ROCKET PROJECT WHERE AIRCRAFT, DUE TO EXTREME RANGE LIMITATIONS, HAD TO TRANSIT MEXICO. SEE REFS A AND B.
END FYI.

9. EACH LANDING SITE IN ABOVE ITINERARY MUST BE CAPABLE OF SUPPLYING 600 GALLONS JP-4 OR JP-5 FUEL. POWER CART LIMITED TO 900 AMPS REQUIRED FOR STARTING ENGINES. AIRCRAFT ALSO REQUIRED FUEL ADDITIVE QUOTE PRIST UNQUOTE THOUGH LIMITED AMOUNTS COULD BE CARRIED
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IF NOT AVAILABLE LOCALLY.

10. AIRCRAFT IS NASA-OWNED AND OPERATED GATES LEAR JET MODEL 248, REGISTRATION NUMBER N705NA, CALL SIGN QUOTE NASA 705 UNQUOTE.

11. EXPEDITION TEAM ACCOMPANYING AIRCRAFT WILL CONSIST OF APPROXIMATELY SEVEN MEMBERS. TWO NASA PILOTS AND TWO SCIENTIFIC INVESTIGATORS WILL BE ON BOARD DURING FERRY FLIGHTS. ALL OTHERS WILL FLY COMMERCIALLY TO PANAMA.

12. PILOT WILL FILE INTERNATIONAL FLIGHT PLAN.

13. COPIES OF REPORTS AND DATA CAN BE MADE AVAILABLE TO HOST GOVERNMENTS IF REQUESTED.

14. WHILE IN MEXICO OR PANAMA, REPRESENTATIVES OF HOST GOVERNMENTS AND SCIENTIFIC COMMUNITY WELCOMED TO VISIT AIRCRAFT TO DISCUSS PROGRAM WITH MISSION STAFF AND EXPERIMENTERS.

15. FOR MEXICO: PLEASE ASCERTAIN AVAILABILITY OF FUEL, POWER CART AND PRIST AND OBTAIN OVERFLIGHT AND LANDING CLEARANCES FOR REFUELING STOP. PLEASE MAKE CLEARANCES FOR DATES CITED PLUS ONE WEEK. PLEASE ADVISE OF ANY PROBLEMS.

16. FOR PANAMA AND HOWARD AFB: PLEASE OBTAIN APPROPRIATE CLEARANCES AND ADVISE. PLEASE ALSO INDICATE AVAILABILITY OF FUEL, POWER CART AND PRIST. CLEARANCES

SHOULD BE FOR ENTIRE PERIOD 17 JULY THROUGH 4 AUGUST
PLUS 10 DAYS TO ALLOW SIMULTANEOUS DEPARTURE WITH U-2
IF ADDITIONAL DATA FLIGHTS NEEDED BETWEEN 4 AUGUST
AND 13 AUGUST.

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17. PLEASE COPY NASA/HEADQUARTERS AND NASA/AMES AS INFORMATION ADDRESSEES ON REPLIES. VANCE

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Message Attributes

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